Sequence Listing

```
5
      <110> Xantos Biomedicine AG
      <120> Medical use of TBK-1 or of inhibitors thereof
      <130> X62428PC
 10
      <140>
      <141>
      -<160> 4
 15
      <170> PatentIn Ver. 2.1
      <210> 1
      <211> 3033
 20
      <212> DNA
      <213> Homo sapiens
      <400> 1
      cctcgtgccg aattcggcac gaggcccgcc ggcggtggcg cggcggagac ccggctggta 60
 25
      taacaagagg attgcctgat ccagccaaga tgcagagcac ttctaatcat ctgtggcttt 120
      tatctgatat tttaggccaa ggagctactg caaatgtctt tcgtggaaga cataagaaaa 180
      ctggtgattt atttgctatc aaagtattta ataacataag cttccttcgt ccagtggatg 240
      ttcaaatgag agaatttgaa gtgttgaaaa aactcaatca caaaaatatt gtcaaattat 300
      ttgctattga agaggagaca acaacaagac ataaagtact tattatggaa ttttgtccat 360
 30
      gtgggagttt atacactgtt ttagaagaac cttctaatgc ctatggacta ccagaatctg 420
      aattottaat tgttttgcga gatgtggtgg gtggaatgaa tcatctacga gagaatggta 480
      tagtgcaccg tgatatcaag ccaggaaata tcatgcgtgt tataggggaa gatggacagt 540
      ctgtgtacaa actcacagat tttggtgcag ctagagaatt agaagatgat gagcagtttg 600
      tttctctgta tggcacagaa gaatatttgc accctgatat gtatgagaga gcagtgctaa 660
- 35
      gaaaagatca tcagaagaaa tatggagcaa cagttgatct ttggagcatt ggggtaacat 720
      tttaccatgc agctactgga tcactgccat ttagaccett tgaagggcet cgtaggaata 780
      aagaagtgat gtataaaata attacaggaa agccttctgg tgcaatatct ggagtacaga 840
      aagcagaaaa tggaccaatt gactggagtg gagacatgcc tgtttcttgc agtctttctc 900
      ggggtcttca ggttctactt acccctgttc ttgcaaacat ccttgaagca gatcaggaaa 960
 40
      agtgttgggg ttttgaccag ttttttgcag aaactagtga tatacttcac cgaatggtaa 1020
      ttcatgtttt ttcgctacaa caaatgacag ctcataagat ttatattcat agctataata 1080
      ctgctactat atttcatgaa ctggtatata aacaaaccaa aattatttct tcaaatcaag 1140
       aacttatcta cgaagggcga cgcttagtct tagaacctgg aaggctggca caacatttcc 1200
      ctaaaactac tgaggaaaac cctatatttg tagtaagccg ggaacctctg aataccatag 1260
 45
      gattaatata tgaaaaaatt tccctcccta aagtacatcc acgttatgat ttagacgggg 1320
      atgctagcat ggctaaggca ataacagggg ttgtgtgtta tgcctgcaga attgccagta 1380
       ccttactgct ttatcaggaa ttaatgcgaa aggggatacg atggctgatt gaattaatta 1440
       aagatgatta caatgaaact gttcacaaaa agacagaagt tgtgatcaca ttggatttct 1500
       gtatcagaaa cattgaaaaa actgtgaaag tatatgaaaa gttgatgaag atcaacctgg 1560
 50
       aagcggcaga gttaggtgaa atttcagaca tacacaccaa attgttgaga ctttccagtt 1620
```

3033

ctcagggaac aatagaaacc agtcttcagg atatcgacag cagattatct ccaggtggat 1680 cactggcaga cgcatgggca catcaagaag gcactcatcc gaaagacaga aatgtagaaa 1740 aactacaagt cctgttaaat tgcatgacag agatttacta tcagttcaaa aaagacaaag 1800 cagaacqtaq attagcttat aatgaagaac aaatccacaa atttgataag caaaaactgt 1860 attaccatqc cacaaaagct atgacgcact ttacagatga atgtgttaaa aagtatgagg 1920 catttttgaa taagtcagaa gaatggataa gaaagatgct tcatcttagg aaacagttat 1980 tatcoctoac taatcaqtgt tttgatattg aagaagaagt atcaaaatat caagaatata 2040 ctaatqaqtt acaagaaact ctgcctcaga aaatgtttac agcttccagt ggaatcaaac 2100 ataccatgac cccaatttat ccaagttcta acacattagt agaaatgact cttggtatga 2160 agaaattaaa ggaagagatg gaaggggtgg ttaaagaact tgctgaaaat aaccacattt 2220 10 tagaaaggtt tggctcttta accatggatg gtggccttcg caacgttgac tgtctttagc 2280 tttctaatag aagtttaaga aaagtttcog tttgcacaag aaaataacgc ttgggcatta 2340 aatgaatgcc tttatagata gtcacttgtt tctacaattc agtatttgat gtggtcgtgt 2400 aaatatgtac aatattgtaa atacataaaa aatatacaaa tttttggctg ctgtgaagat 2460 15 gtaattttat cttttaacat ttataattat atgaggaaat ttgacctcag tgatcacgag 2520 aaqaaaqcca tqaccqacca atatgttgac atactgatcc tctactctga gtggggctaa 2580 ataagttatt ttctctgacc gcctactgga aatattttta agtggaacca aaataggcat 2640 ccttacaaat caggaagact gacttgacac gtttgtaaat ggtagaacgg tggctactgt 2700 gagtggggag cagaaccgca ccactgttat actgggataa caatttttt gagaaggata 2760 aagtggcatt attttatttt acaaggtgcc cagatcccag ttatccttgt atccatgtaa 2820 20 tttcagatga attattaagc aaacatttta aagtgaattc attattaaaa actattcatt 2880 tttttccttt ggccataaat gtgtaattgt cattaaaatt ctaaggtcat ttcaactgtt 2940 ttaagctgta tatttcttta attctgctta ctatttcatg gaaaaaaata aatttctcaa 3000 ttttaatgta aagaaaaaaa aaaaaaaaa a 25 <210> 2 <211> 729 30 <212> PRT <213> Homo sapiens <400> 2 Met Gln Ser Thr Ser Asn His Leu Trp Leu Leu Ser Asp Ile Leu Gly 35 10 Gln Gly Ala Thr Ala Asn Val Phe Arg Gly Arg His Lys Lys Thr Gly 25 40 Asp Leu Phe Ala Ile Lys Val Phe Asn Asn Ile Ser Phe Leu Arg Pro 35 40 Val Asp Val Gln Met Arg Glu Phe Glu Val Leu Lys Lys Leu Asn His 55 50 45 Lys Asn Ile Val Lys Leu Phe Ala Ile Glu Glu Glu Thr Thr Arg 75 70 His Lys Val Leu Ile Met Glu Phe Cys Pro Cys Gly Ser Leu Tyr Thr 50 90 Val Leu Glu Glu Pro Ser Asn Ala Tyr Gly Leu Pro Glu Ser Glu Phe

105

110

100

WO 2005/035746 PCT/EP2004/010996

	Leu	Ile	Val 115	Leu	Arg	Asp	Val	Val 120	Gly	Gly	Met	Asn	His 125	Leu	Arg	Glu
5	Asn	Gly 130	Ile	Val	His	Arg	Asp 135	Ile	Lys	Pro	Gly	Asn 140	Ile	Met	Arg	Val
10	Ile 145	Gly	Glu	Asp	Gly	Gln 150	Ser	Val	Tyr	Lys	Leu 155	Thr	Asp	Phe	Gly	Ala 160
10	Ala	Arg	Glu	Leu	Glu 165	Asp	Asp	Glu	Gln	Phe 170	Val	Ser	Leu	туг	Gly 175	Thr
15	Glu	Glu	Tyr	Leu 180	His	Pro	Asp		Tyr 185	Glu	Arg	Ala	Val	Leu 190	Arg	ГÀЗ
,	Asp	His	Gln 195	Lys	Lys	Tyr	Gly	Ala 200	Thr	Val	Asp	Leu	Trp 205	Ser	Ile	Gly
20	Val	Thr 210	Phe	Tyr	His	Ala	Ala 215	Thr	Gly	Ser	Leu	Pro 220	Phe	Arg	Pro	Phe
25	Glu 225	Gly	Pro	Arg	Arg	Asn 230	Lys	Glu	Val	Met	Tyr 235	Гуз	Ile	Ile	Thr	Gly 240
:	ГÀё	Pro	Ser	Gly	Ala 245	Ile	Ser	Gly	Val	Gln 250	Lys	Ala	Glu	Asn	Gly 255	Pro
30	Ile	Asp	Trp	Ser 260	Gly	Asp	Met	Pro	Val 265	Ser	Cys	Ser	Leu	Ser 270	Arg	Gly
	Leu	Gln	Val 275	Leu	Leu	Thr	Pro	Val 280	Leu	Ala	Asn	Ile	Leu 285	Glu	Ala	Asp
35	Gln	Glu 290	Lys	Çув	Trp	Gly	Phe 295	Asp	Gln	Phe	Phe	Ala 300		Thr	Ser	Asp
40	Ile 305	Leu	His	Arg	Met	Val 310	Ile	His	Va1	Phe	Ser 315	Leu	Gln	Gln	Met	Thr 320
	Ala	His	Lys	Ile	Tyr 325	Ile	His	Ser	Tyr	Asn 330	Lpż	Ala	Thr	Ile	Phe 335	His
45	Glu	Leu	Val	Tyr 340	Lys	Gln	Thr	Lys	Ile 345	Ile	Ser	Ser	Asn	Gln 350	Glu	Leu
	Ile	Tyr	Glu 355	Gly	Arg	Arg	Leu	Val 360	Leu	Glu	Pro	Gly	Arg 365	Leu	Ala	Gln
50	His	Phe 370	Pro	Lys	Thr	Thr	Glu 375	Glu	Asn	Pro	Ile	Phe 380	Val	Val	Ser	Arg
	Glu	Pro	Leu	Asn	Thr	Ile	Gly	Leu	Ile	Tyr	Glu	Lys	Ile	Ser	Leu	Pro

	385					390					395					400
5	Lys	Val	His	Pro	Arg 405	Tyr	Asp	Leu	Asp	Gly 410	Asp	Ala	Ser	Met	Ala 415	Lys
,	Ala	Ile	Thr	Gly 420	Val	Val	Суз	Tyr	Ala 425	Сув	Arg	Ile	Ala	Ser 430	Thr	Leu
10	Leu	Leu	Tyr 435	Gln	Glu	Leu	Met	Arg 440	Lys	Gly	Ile	Arg	Trp 445	Leu	Ile	Glu
	Leu	Ile 450	Lys	Asp	Asp	Tyr	Asn 455	Glu	Thr	Val	His	Lys 460	Lys	Thr	Glu	Val
15	Val 465	Ile	Thr	Leu	Asp	Phe 470	Cys	Ile	Arg	Asn	Ile 475	Glu	Lys	Thr	Val	Lys 480
20	Val	Tyr	Glu	ГЛS	Leu 485	Met	Lys	Ile	Asn	Leu 490	Glu	Ala	Ala	Glu	Leu 495	Gly
	Glu	Ile	Ser	Asp 500	Ile	His	Thr	Lys	Leu 505	Leu	Arg	Leu		Ser 510	Ser	Gln
25	Gly	Thr	Ile 515	Glu	Thr	Ser	Leu	Gln 520	Asp	Ile	Asp	Ser	Arg 525	Leu	Ser	Pro
•	Gly	Gly 530		Leu	Ala	Asp	Ala 535	Trp	Ala	His	Gln	. Glu 540	Gly	Thr	His	Pro
30	Lys 545	Asp	Arg	Asn	Val	Glu 550		Leu	Gln	Val	Leu 555	Leu	Asn	Сув	Met	Thr 560
35	Glu	Ile	Tyr	Tyr	Gln 565	Phe	Lys	Lys	Asp	Lys 570	Ala	Glu	Arg	Arg	Leu 575	Ala
33	Tyr	Asn	Glu	Glu 580	Gln	Ile	His	Lys	Phe 585	Asp	Lys	Gln	Lys	Leu 590	Tyr	Tyr
40	His	Ala	Thr 595	Ьув	Ala	Met	Thr	His 600	Phe	Thr	Asp	Glu	Cys 605	۷al	Lys	Lys

	Tyr Glu Ala Phe Leu Asn Lys Ser Glu Glu Trp Ile Arg Lys Met Leu 610 615 620	
5	His Leu Arg Lys Gln Leu Leu Ser Leu Thr Asn Gln Cys Phe Asp Ile 625 630 635 640	
	Glu Glu Glu Val Ser Lys Tyr Gln Glu Tyr Thr Asn Glu Leu Gln Glu 645 650 655	
10	Thr Leu Pro Gln Lys Met Phe Thr Ala Ser Ser Gly Ile Lys His Thr 660 665 670	
15	Met Thr Pro Ile Tyr Pro Ser Ser Asn Thr Leu Val Glu Met Thr Leu 675 680 685	
,	Gly Met Lys Lys Leu Lys Glu Glu Met Glu Gly Val Val Lys Glu Leu 690 695 700	•
20	Ala Glu Asn Asn His Ile Leu Glu Arg Phe Gly Ser Leu Thr Met Asp 705 710 715 720	
	Gly Gly Leu Arg Asn Val Asp Cys Leu 725	
25		
30	<210> 3 <211> 21 <212> RNA	
•	<213> artificial <400> 3	
35	ggagacaaca acaagacaut t	21
	<210> 4 <211> 21	
40	<212> RNA <213> artificial	
45	<400> 4 augucuuguu guugucucet c	· 21